

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.

Photocopy this page or follow this format for each person.

NAME Hillel S. Koren	POSITION TITLE ORD Asthma Research Program Lead/NHEERL/ORD/EPA
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EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
U. Freiburg, and Max Planck Institute of Immunology, Germany Tel Aviv University, Tel Aviv, Israel	Ph.D. M.Sc	1971 1968	Immunology Microbiology

PROFESSIONAL EXPERIENCE

2003–Present Coordinator, ORD's Asthma Research Program
2001-2005 IPA assignment, Carolina Environmental Program, Chapel Hill, NC
2001-Present Research Professor, Carolina Environmental Program, UNC, Chapel Hill, NC
1999-2001 Lead, ORD Asthma Research Strategy Team
1992-2001 Director, Human Studies Division, Health Effects Research Laboratory, U.S. EPA, Chapel Hill NC
1994-Present Research Professor, Department of Pediatrics, Division of Immunology and Infectious Disease, School of Medicine, UNC, Chapel Hill, NC
1991-1992 Acting Director, Human Studies Division, Health Effects Research Laboratory, U.S. EPA, Chapel Hill, NC
1984-1994 Adjunct Professor of Immunology, Dept. Microbiology & Immunology, UNC, Chapel Hill, NC
1984-1991 Chief, Cell and Molecular Biology Section, Clinical Research Branch, U.S.EPA, RTP, NC
1981-1984 Associate Professor of Immunology, Dept. Microbiology & Immunology, Duke University Medical Center, Durham, NC
1975-1981 Assistant Professor, Dept. Microbiology & Immunology, Duke University Medical Center, Durham, NC
1973-1975 Fogarty Fellow NIH/NCI, Bethesda, MD
1971-1973 Research Assistant/Lecturer, Dept. Microbiology & Immunology, University of California, Berkeley, CA, Fellow of the European Molecular Biology Organization (EMBO)

PROFESSIONAL SOCIETIES

American Association of Immunologists
European Society of Immunology
Society for Leukocyte Biology

American Thoracic Society
German Society for Allergy and Immunity
International Society for Environmental Medicine

SELECTED AWARDS AND HONORS

1971-1973 European Molecular Biology Organization (EMBO) Fellow
1973-1975 NIH Fogarty Fellow
1979-1984 Research Career Development Award (NIH/NCI)
1979-1991 Recipient of R01 NIH/NCI Grants
1980-1984 Experimental Immunology Study Section, National Institutes of Health
1991 U.S. EPA, Scientific and Technological Achievement Award - Level I
1992 U.S. EPA, Scientific and Technological Achievement Award - Level III
1996-2000 Member, Technical Qualifications Board (previously, Promotion Review Board), NHEERL, RTP, NC
1999 Recipient, EPA Bronze Medal for excellence in initiating and implementing an international collaborative Arrangement between EPA and the Research Center for Environment and Health of the Federal Republic of Germany (GSF)
2001 Recipient, EPA Special Act Award for Recognition of His Leadership in ORD's Asthma Program and in Establishing ORD's Asthma Strategy
2005 Recipient, NHEERL Goal 1 Award (Support of Agency's Mission). In recognition of ongoing efforts and outstanding contributions as the NHEERL Asthma Research Team
2005 Topic Lead/Asthma (Susceptible Subpopulations), Human Health Research Program Review for the Board of Scientific Counselors

INVITED PRESENTATIONS/WORKGROUPS AND ADVISORY COMMITTEES

2005 **Co-chair**, The 4th Biennial EPA-GSF Workshop, Hohenkammer/Munich, Germany, June 19-21

- Speaker**, Environmental Influences on Asthma in Elder Adults, in New Trends in Allergy: DGAI Pre-Congress Satellite Symposium, Munich, Germany, June 24
- Speaker**, Why Particles Are Particularly Bad for Health, in World Allergy Congress, Munich, Germany. June 26-July 1
- 2004 **Keynote speaker**, Molecular Research in Environmental Medicine, Dusseldorf, March 18-20
- Co-chair**, EPA-GSF Workshop on Hettstedt and Zerbst Particulate Matter and Health, Munich May 13-16
- Member**, Federal Liaison Group on Asthma, Rockville, MD May 11
- Presenter**, ORD Science Forum, Washington DC June 3
- Member**, Federal Liaison Group on Asthma, Bethesda, MD September 20
- Member**, Program Committee, Environmental Influences on the Induction and Incidence of Asthma, Research Triangle Park, NC October 18-19, 2004
- 2003 **Co-chair**, UNC/CEP Symposium on "Environmental Change and Human Health", Friday Center, April 14/15
- 2001 **Invited speaker**, session on immunology and Aerosols at the "13th International Congress for aerosols and Medicine (ISAM)", Interlaken, Switzerland
- 2001 **Member**, Organizing Committee and speaker Symposium on "Environmental Air Toxics: Role in Asthma Occurrence", Mickey Leland National Urban Air Toxics Research Center, Houston, TX
- 1999 - Present **Member**, Long Range Planning Committee, ATS/Environmental and Occupational Health Assembly.
- 1999 - Present **Member**, International Advisory Committee of the International Congress on Environmental Health, Hannover, Germany, 10/1-4, 2000
- 1997-2000 **Member**, Team to create a national research agenda for occupational asthma (NORA) and chronic lung disease for NIOSH
- 1997-Present **Member**, International Advisory Committee for the International Inhalation Symposia Series of the Hanover Medical School and the Fraunhofer Institute of Inhalation Toxicology, Germany
- 1996 **Chairman**, Organizing Committee on Workshop "Asthma and the Environment", Chapel Hill, NC
- 1996 **Co-chairman**, ATS Symposium "Biomarkers of Upper Airway Responses to Pollutants", New Orleans, Louisiana

PUBLICATIONS (Selected papers from a total of 206 and 3 books)

- Koren, H.S.** Associations between criteria air pollutants and asthma. *Envtl. Hlth Persp.* 103: 235-242, 1995.
- Bromberg, P.A., and **H.S. Koren**. Ozone-induced human respiratory dysfunction and disease. *Toxicology Letters*, 82/83: 307-316, 1995.
- Koren, H.S.**, and P.A. Bromberg. Is ozone a risk factor in "Environmental Asthma"? *Allergo J.* 4: 215-218, 1995.
- Koren, H.S.** and P.A. Bromberg. Respiratory responses of asthmatics to ozone. *Int. Arch Allergy. Immunol* 107: 236-238, 1995
- Devlin, R.B., L.J. Folinsbee, F. Biscardi, S. Becker, M. Madden, M. Robbins, G. Hatch, and **H.S. Koren** Inflammation and Cell Damage Induced by Repeated Exposure of Humans to Ozone. *Inhal. Tox.* 9:211-235, 1997.
- Koren, H.S.**, and M.J. Utell. Asthma and the Environment. *Envtl. Hlth. Persp.* 105: 534-537, 1997.
- Koren, H.S.**, and M. O'Neill. Experimental assessment of the influence of atmospheric pollutants on respiratory disease. *Toxicology Letters* 102-103:317-321, 1998.
- Holgate, S.T., J.M. Samet, **H.S. Koren**, and R.L. Maynard, eds. "Air Pollution and Health", Academic Press, 1999.
- Van Loveren, H.D., D. Gorelic, **H.S. Koren**, M.I. Luster, C. Nolan, R. Repetto, E. Smith, J. Vos, and R.F. Vogt. Advancement of epidemiological studies in assessing the human health effects of immunotoxic agents in the environment and the workplace. *Biomarkers* 4(2): 135-157, 1999.
- Becker, S., W.A. Clapp, J. Quay, K.L. Frees, **H.S. Koren**, and D.A. Schwartz. Compartmentalization of the inflammatory response to inhaled grain dust. *Am. J. Resp. Crit. Care Med.* 160:1309-1999.
- Gavett, SH., and **H.S. Koren**. The role of particulate matter in exacerbation of atopic asthma. *Int. Arch. Allergy Immunol.*, 124: 109-112, 2001.
- Koren, H.S.** and D. Crawford-Brown. A framework for the integration of ecosystem and human health in public policy. *Envtl. Res.* 95:92-105, 2004.
- Butler, C.D., C. Corvalan, and **H.S. Koren**. Human health and well-being in global ecological scenarios. *Ecosystems*, 8(2):153-162, 2005
- Butler C, Oluoch-Kosura W, Corvalan C, Fobil J., **Koren H.**, Pingali P., Tancredi E., Zurek M., Hales S. Human well-being across the scenarios. In: Carpenter SR., . Pingali PL, Bennett EM and Zurek MB. *Ecosystems and Human Well-Being: Scenarios Vol 2*. Washington: Island Press, 2006: 411-429
- Koren, H.S.**, and C. Butler. The interconnection between the built environment ecology and health. In: *Environmental Security and Environmental Management: The Role of Risk assessment. Environmental and Security*, In Vol. 5, 111-127. Morel, Benoit, and Linkov (Eds.) NATO Proceedings, 2005
- Yeatts, K., P. Sly, S. Shore, S. Weiss, F. Martinez, A.M. Geller, P. Bromberg, P. Enright, **H. Koren**, D. Weissman, and M.J. Selgrade A Brief Targeted Review of Susceptibility Factors, Environmental Exposures, Asthma Incidence, and Recommendations for Future Asthma Incidence Research., *Envtl Hlth Persp.*, in press 2006.

